

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

**** SBFCA currently has operation and maintenance obligations during project construction and closeout.**

Sutter Maintenance Yard Hamilton Bend

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|-------|------------|--------------------------|---------------|
| Unit No. 01 Feather River Hamilton Bend | Right | 3.39 | 03/23/2017 03/23/2017 | Sterling York |

| | | | | | |
|---|----------------------------------|--------------|------------------------|------------|----------|
| LM Start | | Rating ** | A | Issue No. | 7 |
| LM End | | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Operations & Maintenance Manuals | | | ° | ° |
| | | | | ° | ° |
| DWR ID | DWR_ST0005_01_s _ 2013_7 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| There will be new O&M manuals when the levee is turned back over to the LMA after construction is complete. The old O&M manuals are located at the Sutter Maintenance Yard. | | | | | |

No Photos

| | | | | | |
|---|--------------------------------|--------------|------------------------|------------|----------|
| LM Start | | Rating ** | A | Issue No. | 8 |
| LM End | | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Emergency Supplies & Equipment | | | ° | ° |
| | | | | ° | ° |
| DWR ID | DWR_ST0005_01_s _ 2013_8 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| Emergency supplies and equipment are stored at the Sutter Maintenance Yard. | | | | | |

No Photos

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
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| | | | | | | |
|--|-------------------------------|--------------|----|------------------------|----|-----|
| LM Start | | Rating ** | A | Issue No. | 9 | |
| LM End | | Issue Type + | Ma | Location * | WS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Flood Preparedness & Training | | | | o | |
| | | | | | o | |
| DWR ID | DWR_ST0005_01_s_2013_9 | | | | | |
| Comment Code | | | | | | |
| | | | | | | |
| Inspector Comment | | | | | | |
| Sutter Maintenance Yard employees attend the annual Flood Fight class put on by DWR inspector Bob Duffy. | | | | | | |
| | | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.01 | Rating ** | A/W | Issue No. | 12 |
| LM End | 1.22 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.439831 ° | 39.456815 ° |
| | | | | -121.641453 ° | -121.639324 ° |
| DWR ID | DWR_ST0005_01_s_2017_12 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| Controlled annual vegetation. | | | | | |

Photo 1 of 1 : SP_2017_ST0005_289_12_20170327_00016.jpg



View of well maintained vegetation, land side looking upstream. Spring 2017.

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
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|---|-------|------------|--------------------------|---------------|
| Unit No. 01 Feather River Hamilton Bend | Right | 3.39 | 03/23/2017 03/23/2017 | Sterling York |

| | | | | | |
|--|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.01 | Rating ** | A/W | Issue No. | 17 |
| LM End | 1.22 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.439832 ° | 39.456802 ° |
| | | | | -121.641454 ° | -121.639315 ° |
| DWR ID | DWR_ST0005_01_s_2017_17 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| Controlled annual vegetation. | | | | | |

Photo 1 of 1 : SP_2017_ST0005_289_17_20170327_00017.jpg



View of well maintained vegetation, water side looking upstream. Spring 2017.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.19 | Rating ** | M | Issue No. | 15 |
| LM End | 0.19 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.442435 ° | 39.442435 ° |
| | | | | -121.641760 ° | -121.641760 ° |
| DWR ID | DWR_ST0005_01_s_2015_15 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
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| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|-------|------------|--------------------------|---------------|
| Unit No. 01 Feather River Hamilton Bend | Right | 3.39 | 03/23/2017 03/23/2017 | Sterling York |

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.70 | Rating ** | M | Issue No. | 16 |
| LM End | 0.70 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.449623 ° | 39.449623 ° |
| | | | | -121.640940 ° | -121.640940 ° |
| DWR ID | DWR_ST0005_01_s _ 2017_16 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.48 | Rating ** | U | Issue No. | 18 |
| LM End | 1.68 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 39.458053 ° | 39.459462 ° |
| | | | | -121.636300 ° | -121.633817 ° |
| DWR ID | DWR_ST0005_01_s _ 2017_18 | | | | |
| Comment Code | | | | | |
| T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| From Levee Mile 1.38 to 3.39 has never been maintained by the LMA | | | | | |

Photo 1 of 1 : SP_2017_ST0005_289_18_20170327_00020.jpg



View of thick trees and vegetation blocking visibility on waterside, looking downstream. Spring 2017.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
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Sutter Maintenance Yard Hamilton Bend

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|-------|------------|--------------------------|---------------|
| Unit No. 01 Feather River Hamilton Bend | Right | 3.39 | 03/23/2017 03/23/2017 | Sterling York |

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.48 | Rating ** | U | Issue No. | 11 |
| LM End | 1.68 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 39.458055 ° | 39.459455 ° |
| | | | | -121.636300 ° | -121.633822 ° |
| DWR ID | DWR_ST0005_01_s _ 2017_11 | | | | |
| Comment Code | | | | | |
| T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| From Levee Mile 1.38 to 3.39 has never been maintained by the LMA | | | | | |

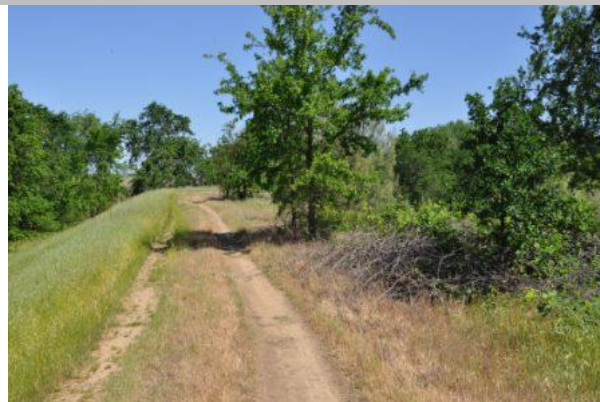
Photo 1 of 1 : SP_2017_ST0005_289_11_20170327_00019.jpg



View of thick trees blocking visibility on landside, looking downstream. Spring 2017.

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.69 | Rating ** | M | Issue No. | 5 |
| LM End | 3.04 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 39.459451 ° | 39.469081 ° |
| | | | | -121.633670 ° | -121.612535 ° |
| DWR ID | DWR_ST0005_01_s _ 2013_5 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |
| Trees smaller than 4" in diameter at chest height should be removed before they get any bigger. | | | | | |

Photo 1 of 1 : SP_2017_ST0005_289_5_20170316_00003.jpg



W/S trees 4" in diameter at chest height should be removed before they get to big..

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
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|---|-------|------------|--------------------------|---------------|
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| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.46 | Rating ** | M | Issue No. | 10 |
| LM End | 2.48 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.465370 ° | 39.465410 ° |
| | | | | -121.622074 ° | -121.621736 ° |
| DWR ID | DWR_ST0005_01_f_2016_10 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| Blackberry bushes are covering landside slope. From Levee Mile 1.38 to 3.39 has never been maintained by the LMA. | | | | | |

Photo 1 of 1 : SP_2017_ST0005_289_10_20170316_00005.jpg



View of blackberries that are covering landside slope.

| | | | | | |
|--|------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.53 | Rating ** | U | Issue No. | 3 |
| LM End | 3.24 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 39.465532 ° | 39.470155 ° |
| | | | | -121.620753 ° | -121.609241 ° |
| DWR ID | DWR_ST0005_01_f_2016_3 | | | | |
| Comment Code | | | | | |
| T2 : Thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| From Levee Mile 1.38 to 3.39 has never been maintained by the LMA | | | | | |

Photo 1 of 1 : SP_2017_ST0005_289_3_20170316_00001.jpg



Very dense trees and limbs that completely obstruct visibility and flood fight access to the levee slope and the landside easement.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

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| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|-------|------------|--------------------------|---------------|
| Unit No. 01 Feather River Hamilton Bend | Right | 3.39 | 03/23/2017 03/23/2017 | Sterling York |

| | | | | | |
|---|------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.63 | Rating ** | U | Issue No. | 6 |
| LM End | 2.63 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.466025 ° | 39.466025 ° |
| | | | | -121.618972 ° | -121.618972 ° |
| DWR ID | DWR_ST0005_01_f_2016_6 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| Blackberries covering slope. From Levee Mile 1.38 to 3.39 has never been maintained by the LMA. | | | | | |

Photo 1 of 1 : SP_2017_ST0005_289_6_20170316_00004.jpg



View of blackberries that are covering the landside slope.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.93 | Rating ** | M | Issue No. | 23 |
| LM End | 3.09 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 39.468492 ° | 39.469304 ° |
| | | | | -121.614417 ° | -121.611733 ° |
| DWR ID | DWR_ST0005_01_s_2016_23 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| Annual grasses need to be maintained. From Levee Mile 1.38 to 3.39 has never been maintained by the LMA. | | | | | |

Photo 1 of 1 : SP_2017_ST0005_289_23_20170316_00009.jpg



View of annual grasses that need to be maintained.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
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| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---|-------|------------|--------------------------|---------------|
| Unit No. 01 Feather River Hamilton Bend | Right | 3.39 | 03/23/2017 03/23/2017 | Sterling York |

| | | | | | |
|--|------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.26 | Rating ** | M | Issue No. | 4 |
| LM End | 3.27 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 39.470433 ° | 39.470558 ° |
| | | | | -121.609200 ° | -121.609215 ° |
| DWR ID | DWR_ST0005_01_s_2013_4 | | | | |
| Comment Code | | | | | |
| T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| Small trees 4" in diameter at chest height should be removed before they get too big. From Levee Mile 1.38 to 3.39 has never been maintained by the LMA. | | | | | |

Photo 1 of 1 : SP_2017_ST0005_289_4_20170316_00002.jpg



Waterside trees. Small trees 4" in diameter at chest height should be removed before they get to big.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|